

IMPROVED SYNTHESIS OF PYRROLES

ABSTRACT

An improved and highly efficient method for the preparation of 2-R (R = alkyl, aryl, H) pyrroles from nitriles (RCN, R = alkyl, aryl) is described using Lewis acid activated donor-acceptor cyclopropanes to react with aliphatic, aromatic, branched, α,β -unsaturated, or otherwise functionalized nitriles in a cascade [3+2] dipolar cycloaddition, dehydration and 5 tautomerization sequence.